

III. CLAIM AMENDMENTS

1. (Currently Amended) A method for transmitting information between applications—(A1, A2) executed in a first—(TE1) and a second data transmission device—(TE2) in a data transmission system, the method comprising:
~~using in which information transmission~~ a data transmission protocol in the information transmission is used; ~~wherein in the method performing~~ one or more protocol conversions are ~~conducted~~ in the protocol stack—(ST) for the information to be transmitted, said protocol stack comprising at least an application layer—(L7) and a physical layer—(L1); ~~characterized in that~~ and transmitting messages between the first data transmission device and the second data transmission device, the transmitting comprising at the transmission stage producing messages in the application layer (FR1) ~~are produced from the information to be transmitted and that the production of the messages (FR1) is conducted in the application layer~~ (L7).

2. (Currently Amended) The method according to claim 1, ~~characterized in that~~ comprising transmitting in the method at least two types of ~~messages~~ components are ~~transmitted in the messages,~~ wherein the messages—(FR1) contain information on the type of the ~~message~~ component transmitted in the message—(FR1).

3. (Currently Amended) The method according to claim 2, ~~characterized in that~~ comprising the messages—(FR1) ~~are~~

provided at least with a header field ~~(H1)~~, on the basis of which the type of the message is determined.

4. (Currently Amended) The method according to claim 3, ~~characterized in that~~ comprising dividing said header field ~~(H1)~~ is divided at least into first and second ~~two~~ different parts, wherein the first part ~~(C1)~~ is used in all messages ~~(FR1)~~ and ~~said the~~ second part ~~(T1)~~ is used, if necessary, in the transmission of the type-specific information of the message transmitted in the message.

5. (Currently Amended) The method according to claim 3, ~~characterized in that~~ comprising providing the messages ~~(FR1)~~ are also provided with a data field ~~(D1)~~ to transmit information produced in the application ~~(A1, A2)~~.

6. (Currently Amended) The method according to claim 1, ~~characterized in that~~ comprising using in the protocol stack ~~(ST)~~ at least a session layer ~~(L5)~~ is used between the application layer ~~(L7)~~ and the physical layer ~~(L1)~~, in which the protocol ~~(WSP, HTTP)~~ used therein contains data frames ~~(FR2)~~, containing at least a header field ~~(H2)~~ and a data field ~~(D2)~~, wherein the method further comprises transferring messages produced in the application layer are transferred to the data field ~~(D2)~~ of the data frames ~~(FR2)~~ of the session layer.

7. (Currently Amended) The method according to claim 1, ~~characterized in that~~ comprising using the WAP system ~~is at least partly used as~~ the data transmission system.

8. (Currently Amended) The method according to claim 1, ~~characterized in that~~ comprising using the Internet data transmission network ~~is at least partly used as the data transmission system.~~

9. (Currently Amended) A data transmission system ~~which comprises~~ means for transmitting information by means of a data transmission protocol between applications ~~(A1, A1)~~ executed in a first ~~(TE1)~~ and second data transmission device ~~(TE2)~~ in a data transmission system ~~in which the information is arranged to be transmitted by means of a data transmission protocol, wherein the data transmission system comprises;~~ means for conducting performing one or more protocol conversions for the information to be transmitted in the protocol stack ~~(ST)~~, which the protocol stack comprises at least an application layer ~~(L7)~~ and a physical layer ~~(L1)~~, ~~characterized in that the data transmission system also comprises at least;~~ and means ~~(MPU, MEM)~~ in the application layer for producing messages ~~(FR1)~~ from the information to be transmitted, ~~and that the production of the messages (FR1) is arranged to be conducted in the application layer (L7).~~

10. (Currently Amended) The data transmission system according to claim 9, ~~characterized wherein~~ at least two types of ~~messages~~ components are arranged to be transmitted in the messages ~~(FR1)~~, and wherein the ~~messages~~ components are supplemented with information on the type of the message transmitted in the message ~~(FR1)~~.

11. (Currently Amended) The data transmission system according to claim 10, ~~characterized in that~~ wherein the messages—(FR1) are provided at least with a header field—(H1), on the basis of which the type of the message is arranged to be determined.

12. (Currently Amended) The data transmission system according to claim 11, ~~characterized in that~~ wherein said header field—(H1) is divided at least into first and second ~~two different~~ parts, wherein the first part—(C1) is arranged to be used in all messages—(FR1) and ~~said the~~ second part—(T1) is arranged to be used, if necessary, in the transmission of the type-specific information of the message transmitted in the message.

13. (Currently Amended) The data transmission system according to claim 11, ~~characterized in that~~ wherein the messages—(FR1) are also provided with a data field—(D1) to transmit information produced in the application—(A1, A2).

14. (Currently Amended) The data transmission system according to claim 9, ~~characterized in that~~ wherein in the protocol stack—(ST) at least a session layer—(L5) is used between the application layer—(L7) and the physical layer—(L1), in which the protocol—(WSP, HTTP) used therein contains data frames—(FR2), containing at least a header field—(H2) and a data field—(D2), wherein the messages produced in the application layer are arranged to be transferred to the data field—(D2) of the data frames—(FR2) of the session layer.

15. (Currently Amended) The data transmission system according to claim 9, ~~characterized in that~~ wherein the data transmission system comprises at least the WAP system.

16. (Currently Amended) The data transmission system according to claim 9, ~~characterized in that~~ wherein the data transmission system comprises at least the Internet data transmission network.

17. (Currently Amended) A terminal—(TE1, TE2) which comprises at least means—(MPU, MEM) for executing applications—(A1, A2); and means—(RF, ANT) for transmitting information produced in the application to a data transmission system for the transmission of the information by means of a data transmission protocol to an application (A1, A2) executed in a second data transmission device (TE2), ~~in which data transmission system information is arranged to be transmitted by means of a data transmission protocol, wherein the terminal (TE1, TE2) also comprises;~~ means—(MPU, MEM) for conducting performing one or more protocol conversions for the information to be transmitted in a protocol stack—(ST) comprising at least an application layer—(L7) and a physical layer—(L1), ~~characterized in that the terminal (TE1, TE2) also comprises at least;~~ and means (MPU, MEM) in the application layer for producing messages (FR1) from the information to be transmitted, ~~and that the production of messages (FR1) is arranged to be conducted in the application layer (L7).~~